Application/Control Number: 48/25/25/25/25

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1. A method of using mobility agents in a telecommunications system, which telecommunications system comprises at least one mobile node supporting the mobile IP and several network elements, of which network elements at least one comprises one or more mobility agents configured to transmit advertising messages to mobile nodes, the method comprising the steps of:

transmitting information on the Apibutes of one or more network elements in advertising messages from the mobility agents to at least one mobility node, and

using said information in the mobile node in the selection of the serving network element.

A method according to claim 4, wherein
 said information is transmitted in advertising messages including
 Care-of addresses of the mobility agents periodically and/or at the request of a
 mobile node.

3. A method according to claim 1-or-2, wherein

Spribanes of different foreign agents are compared in the multite node on the basis of said information received from the foreign agents.

the foreign agent that on the basis of its attributes can best take care of data transmission of the mobile node is selected, and

a registration request is transmitted to the selected foreign agent.

4. A method according to claim 3, wherein said information comprises at least one of the following toyetgn agent arrivales:

current delay of the connection offered by the foreign agent average delay of the connection offered by the foreign agent jitter of the connection offered by the foreign agent mumber of users served by the foreign agent throughout of the foreign agent load of the foreign agent

proportional load of the foreign agent compared to the other foreign agents in the system.

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5. A method according to claim 1, wherein the mobile node is wiseless and the infecommunications system is wireless and comprises access points which offer a wireless connection to at least one mobile node, said information comprising at least one of the following:

loads of different access points information on the least loaded access point information on the recommended access point other eyelity of service parameters of the access points.

6. A method according to claim 5, wherein

the attributes of different access points are compared in the mobile node on the basis of said information.

the occess point that on the basis of its attributes and any other criteria, such as radio channel measurements, can best offer a telecommunications connection to the mobile node is selected, and

a committion is established between the selected access point and the mobile node.

7. A method of utilizing advertising messages in a telecommunications system comprises at least one mobile notice and at least one router, the router being configured to transmit advertising messages to mobile nodes, the method comprising the steps of:

transmitting advertising messages from at least one router to at least one mobile node, the messages including information on the attributes of one or more network elements, and

using said information in the nobile node in the selection of the serving network element.

8. A method according to claim 7, wherein $^{\mathcal{M}}$ said information comprises router attributes, and

the router to be used is selected in the mobile node on the basis of said information.

9. A method according to claim 7 or 8, wherein the mobile node is wireless and the relecommunications system is wireless and comprises access points which after a wireless connection to at less one mobile node, said information comprising at least one of the following:

toads of different access points
information on the feast loaded access point
information on the recommended access point
exher quality of service parameters of the access points.

10. A method according to claim 9, wherein

the attributes of different access points are compared in the mobile made on the basis of said information.

The access point that on the basis of its stiributes and any other criteria, such as radio charked measurements, can best offer a telecommunications connection to the mobile node is selected, and

- a connection between the selected access point and the mobile mode is established.
- A network element of a telecommunications system, the network element comprising:

an IP mobility egent functionality configured to transmit advertising messages to mobile nodes in the system.

means for collecting information on the attributes of one or more network elements in the telecommunications system, and

means for transmitting the information in adventising messages to at least one mobile node.

- 12. A releval element according to claim 11, whereinthe information comprises attributes of a foreign agent and/or attributes of one or more access points of the telecommunications system.
- 13. A router configured to transmit advertising messages to mobile nodes, the router comprising:

means for collecting information on the attributes of one or more network elements of the telecommunications system, and

means for transmitting the information in advertising messages to at least one mobile node.

- 14. A router according to dain 13, whereinthe information comprises attributes of the router and/or stiributes of one or more access points of the telecommunications system.
- 15. A mobile mode supporting the mobile IP for a telecommunications system, Cytich telecommunications system comprises several network elements, of which at least one comprises one or more mobility agents, said mobile node comprising.

recoption means for receiving attribute information on one or more metwork elements from one or more mobility agents, and

processing means for selecting the serving retrook element on the basis of said information.

16. A mobile node according to claim 15, wherein

said stribute information comprises attributes of the foreign agents, the processing means are configured to compare attributes of the

the processing means are configured to compare stiributes of the foreign against of the basis of said information.

The processing meens are configured to select the foreign agent that on the basis of its attributes can best take care of data transmission of the mobile rode, and

the processing means are configured to transmit a registration request to the selected foreign agent.

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17. A mobile node according to claim 15 or 46, wherein used information comprises antibutes of the access points of the telecommunications system.

the processing means are configured to compare the similates of the access going on the basis of and information received from the mobility agents.

the processing means are configured to select the access point that on the basis of its autilities and any other criteria, such as radio chan (smeasurement, can be a differ a telecommunication connection to the mobile sode, and

the processing means are configured to establish a correction between the salected access point and the mobile mode.

18. An advertising message which is transmitted from a mobility agent of a telecommunications system supporting the mobile iP to a mobile node and which is used for advertising the mobility agent and can be used for transmitting care of addresses.

> the message comprising information on the attributes of the mobility agant and/or on the attributes of other network elements belonging to the system.